

ABSTRACT

The connection, assembly, or fill of two or more pre-sterilized components having at least one terminal end each for attachment to another component, and an apparatus for performing such a connection, while maintaining the sterility of the components is disclosed. The resulting connection is made permanent by bonding the contacting components together using either a solvent bonding technique, a radio frequency sealer, a heat sealer, or any other suitable process. The connection is preferably made within an active sterile field. Using a low-voltage electron beam instrument, such as the MIN-EB™, a suitable sterile field sphere can be created. The terminal ends of the multiple components remain within the sterile field sphere until the possibility of contamination within the sealed components is significantly reduced to industry acceptable standards.